

ABSTRACT

5 A plurality of electrical storage devices such as batteries capable of alternately
storing and discharging electricity are connected to the power grid within existing rights
of way. The electrical storage devices are batteries that may be alternately charged
during periods of low power consumption and discharged during periods of high power
consumption. In this manner, the power generating facilities can be operated at constant,
or near constant generation, thereby optimizing the efficiency and productivity of the
10 power generation. Significant amounts of power can then be stored within these batteries
throughout the grid, thereby allowing the grid to meet peak loads by discharging the
stored power during periods of high demand. Additionally, the placement of these
batteries within existing rights of way allow the existing grid to be retrofitted to deliver
more power without the need for costly and time consuming negotiations for new rights
15 of way.